

BLUEJAY MINING PLC THE ARCTIC PROMISE



BLUEJAY, GREENLAND'S PREMIER MINING EXPLORATION AND DEVELOPMENT COMPANY, IS ON ITS WAY TO RELEASE THE ISLAND'S POTENTIAL.

THE ARCTIC PROMISE

PROJECT MANAGED BY: MAX HUTCHINGS



Bluejay Mining Plc is an Arctic-focused multi-commodity, multi-project exploration and development resource company. Bluejay currently has four projects in Greenland, which it is actively developing, as well as several projects in former Finnish mining districts - two countries with very stable jurisdictions and very high environmental, social and governance (ESG) standards.



Bo Møller Stensgaard
CEO, Bluejay Mining Plc.

As the parent company, Bluejay Mining runs several wholly owned subsidiaries that are in charge of project execution. The company has experts positioned in various locations throughout the world from Helsinki and London to Calgary to draw on the best expertise available. The amount of online communication and management has been high, a winning factor during the pandemic.

CEO Bo Møller Stensgaard affirms that the company has a very strong project portfolio in both countries and the fact that its teams are specialists in these challenging environments is a clear advantage when compared to competitors. "We have extensive in-house expertise - we are not only geologists, but almost everyone in our team also has a professional background in mining, logistics and project management plus sound experience of operations in >>

Breath-taking views at one of the drill ready targets defined by Bluejay at the Disko Project in West Greenland.



Geochemical soil sampling on the Disko Project have revealed several very promising targets for nickel, copper, cobalt.

the Arctic paired with a profound understanding of the mineral business. While there are other companies with recent interest in Greenland, our unique ability to handle Arctic challenges - from climatic conditions to working with local communities - is what sets us apart.”

He explains that Greenland represents one of the last underexplored mineral regions that has the potential to contain globally significant resources. Finland on the other hand offers opportunities of a different kind - it has a long mining tradition and the company is looking at some of the brownfield areas in the former mining districts, re-evaluating the data with new eyes and testing areas with proven resources.

ONE OF A KIND

The prime focus at the moment is on advancing into production Bluejay’s primary Dundas Ilmenite Project in Greenland, the world’s most significant, highest grade mineral sand ilmenite deposit, in the near term. Ilmenite concentrate is used for the production of titanium - a metal regarded as critical by the European Union, the US and Canada.

The purpose of the Dundas Ilmenite Project is to extract ilmenite from the onshore raised and dry beaches of the ‘black sand’ deposit on the south coast of Steensby Land peninsula in North-West Greenland. The black sand is located on the surface of the raised and active dry beaches, and therefore requires simple surface mining and processing.

The project will consist of onshore automated continuous surface miners, a wet plant, a dry plant, a small port, a ship-loading facility, an airstrip, workforce accommodation, concentrate storage, and general utilities such as power and water supply. >>

PANGAEA LOGISTICS SOLUTIONS - GREENLAND & THE DUNDAS TITANIUM PROJECT

PANGAEA’S PERSPECTIVE

Mining activities generally require years of planning, hard work and investment. In today’s environment, the importance of having the proper mix of qualified and experienced human resources is a prerequisite for success.

The rewards of success benefit numerous interests. The Dundas Project for the mining of Ilmenite, the primary source of titanium, is no exception, and under Bluejay Mining’s stewardship, the commercialization of this mineral resource will stand to positively enhance the evolution and progress of Greenland and its people, in many ways.

Pangaea Logistics Solutions is honored to have been chosen to play a small role in assisting Bluejay Mining in the development of this very interesting project.

Pangaea’s businesses are focused on Maritime Logistics: Port & Terminal Operations, Projects, and the Ocean Transportation of Dry Bulk commodities, on a global basis. One area of expertise and leadership is in Arctic waters where it has been active for many years and has transported millions of metric tonnes of bulk commodity to global markets – assisting in the advancement of the people, and their communities, above the Arctic circle.

These capabilities, together with Pangaea’s reputation for innovation, quality, and reliability, supported Bluejay’s decision to choose Pangaea as their counter-party and partner in their requirement to export 42,000 metric tonnes of Ilmenite Ore from Moriusaq in the summer of 2019.

Bluejay had successfully worked through the many tasks expected in the establishment of a greenfield mineral resource and mining operation but validating the project’s viability, by delivering its first shipment of product, was a remaining objective upon which many hopes, aspirations, and substantial investments were hinged. During the month of February 2019, Pangaea Logistics Solutions (through its wholly owned division, “Phoenix Bulk Carriers”) was approached to provide the expertise, assets, and services required to accomplish Bluejay’s objectives. Discussions commenced and before too long a design concept was vetted and agreed.

In early July, a site visit to the Dundas project at Moriusaq in North-West Greenland was organized. Pangaea’s team then had the opportunity to fine-tune the many analyses and requirements needed for a successful logistics execution.

Bluejay’s team were well-prepared in providing Pangaea with the necessary data and input. This included engineering reviews of bathymetric and geo-technical data, the choice of a ship-loading location, the manner of ship-loading, environmental and safety controls. Bluejay’s highly experienced team was fundamental to the project.

Team members from Pangaea and Bluejay worked closely on-site for 4 days. On their departure to Moriusaq, Pangaea’s team had already secured the needed input and were well on the way to finalizing many of the execution details and ensuring the necessary human resources, equipment and timetable was identified.

As they say, “Planning Is Everything” but that is only part of the story - the most important component is Human Resources, and that is what makes the difference between success and failure.

By mid-August, everything had been finalized, boxes were “ticked”, equipment was scheduled and deployed. The Pangaea Team arrived on-site

during the last week of August. The planning paid off and after setup of the ship-loading facilities, the robust assets employed handled the loading of 42,000 metric tonnes of Ilmenite in just under 48 hours, after which our ship sailed, uneventfully, to its destination and delivered Bluejay’s (and Greenland’s) precious cargo. The ice-free open-water window at Dundas is approximately 4 months per year and, when in production, Bluejay plan for 11 shipments per year which leaves more than sufficient time for ship-loading operations.

The teams from Bluejay/Dundas and Pangaea had built a strong camaraderie during this project. They continued this relationship after the ship had sailed, and they assisted each other in dismantling the temporary port facility. Once all equipment was safely stowed for the trip home, the teams bid each other a happy and fond farewell.

By all measures, the first shipment of Ilmenite Ore from the Dundas Project was a success, with the parties having met their objectives and left the work site, in the same pristine condition found on arrival, leaving behind a Zero Footprint – 800 nautical miles from the North Pole.

Pangaea is a proud partner of Bluejay Mining and consider it a privilege to have Bluejay’s confidence and having been chosen to assist them in this challenging undertaking.

PANGAEA LOGISTICS SOLUTIONS

We are a highly motivated group of logistics professionals, inspired by challenge, and dedicated to providing our clients with “Best Of Class” service and solutions that meet both their expectations and needs.

We are Ship-Owners, Ship-Operators and Ship-Managers providing ocean transport services for dry bulk commodities. We complement and support our maritime capabilities being invested in and actively operating Port & Terminal facilities. We are “project” focused and eager to provide innovative solutions where we efficiently and effectively integrate our various services in the supply chain. Our team, and partners, prioritize safe and environmentally responsible operations at all levels.

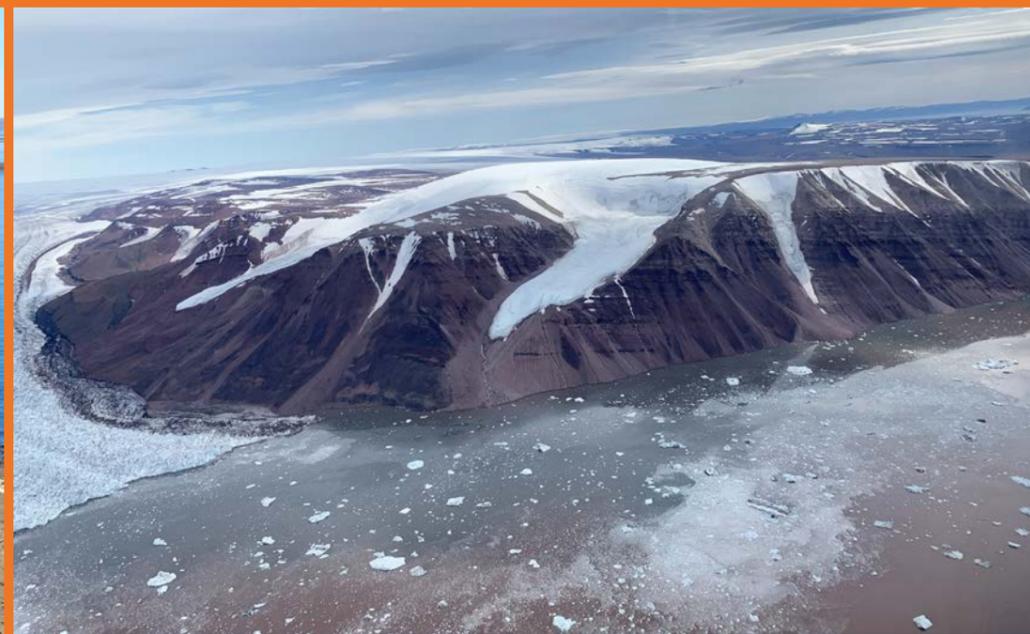
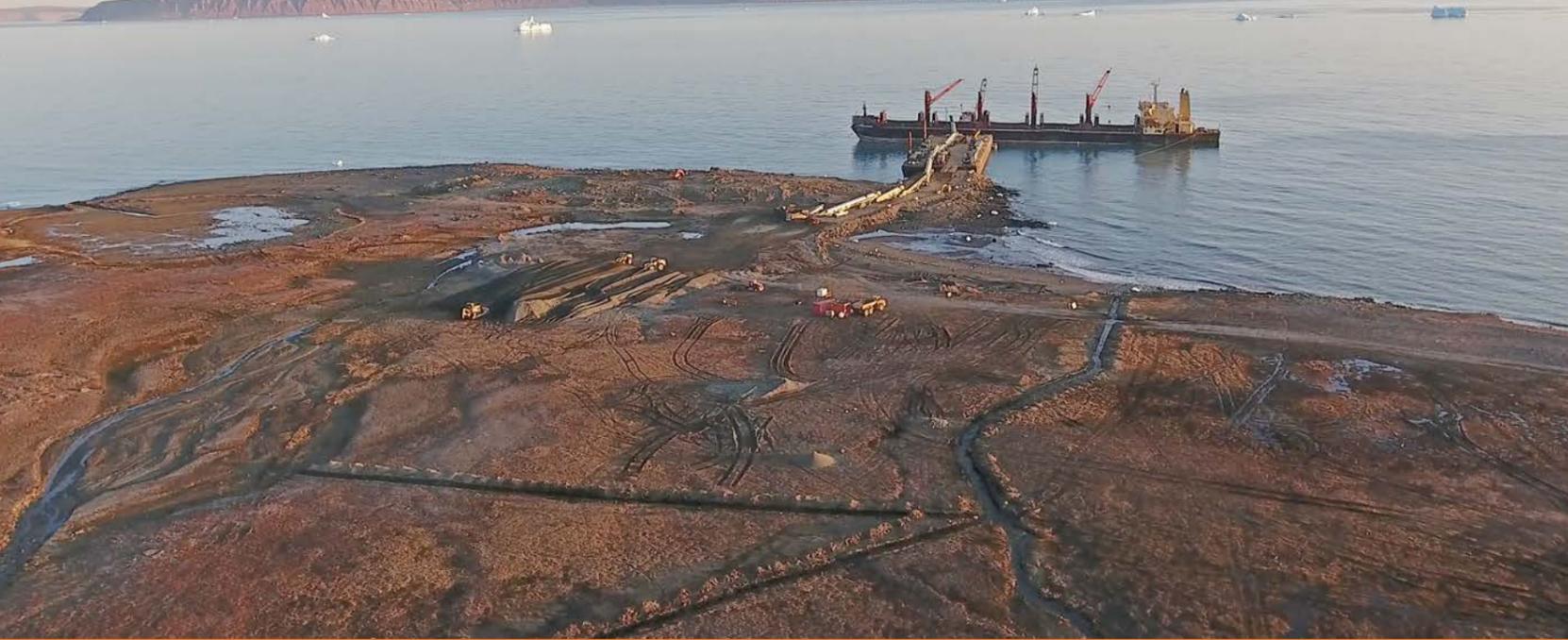
We have offices in U.S.A., Denmark, Greece, and Singapore. We are a publicly traded company (NASDAQ), providing transparency and confidence.

Under the Pangaea umbrella our wholly owned ship-operating divisions, Phoenix Bulk Carriers, Americas Bulk Transport, Nordic Bulk Carriers, and Seamar Management are well-known, respected and operate within the global Dry Bulk Shipping markets.



Peter Koken / Senior Vice President / Phoenix Bulk Carriers (US) LLC

www.pangaeals.com



PANGAEA
LOGISTICS SOLUTIONS



Contact: +1.401.846.7790
projects@pangaeals.com
www.pangaeals.com
Phoenix Bulk Carriers
109 Long Wharf
Newport, RI 02840 USA



Mr Stensgaard summarised the project's uniqueness: "The resource is chemically homogenous, with low impurities, which is unusual on a global scale. Only three simple processes are required – mining, wet gravity processing and dry magnetic processing. The low-cost production will have minimal environmental impact. Its proximity to the US and Europe provides multiple export opportunities with relatively low shipping costs."



⤴
The high-grade ilmenite black sand from the Dundas Ilmenite Project. The black colouring is created by the ilmenite minerals which are black.

“THE RESOURCE IS CHEMICALLY HOMOGENOUS, WITH LOW IMPURITIES, WHICH IS UNUSUAL ON A GLOBAL SCALE.”

The Dundas project underwent a successful public hearing and experiences local support from the surrounding communities in North-West Greenland. The Government of Greenland granted a 30 year mining permit for the project in December 2020 - a permit that can be extended. Whilst the feasibility study has initially identified a reserve for a 10-year mining operation, it is expected that additional resources in the area should be capable of supporting an operation for many more years.

“WHILE THERE ARE OTHER COMPANIES WITH RECENT INTEREST IN GREENLAND, **OUR UNIQUE ABILITY TO HANDLE ARCTIC CHALLENGES** – FROM CLIMATIC CONDITIONS TO WORKING WITH LOCAL COMMUNITIES, IS WHAT SETS US APART.”

MINIMAL IMPACT
Unlike most mining projects elsewhere in the world, the Dundas Ilmenite Project will have minimal environmental and positive social impact. Mr Stensgaard explains that where present, the uppermost part of the raised beaches with their organic plant material will be stripped off and deposited for later remediation work when the ilmenite has been mined from the black sand and the mining voids have been back-filled with sand rejected by the wet gravity separation. >>



**IF YOU'VE GOT A JOB
TO DO, WE'VE GOT THE
TOOL TO DO IT**



Visit our workshop
in Nuuk!
See all details on
zeppelin-cat.dk

ZEPPELIN DANMARK

AUTHORISED CATERPILLAR DEALER. ENGINES AND MACHINES BUILT TO LAST
ALSO IN THE ARCTIC CLIMATE OF GREENLAND. SERVICE TECHNICIANS
IN YOUR VICINITY. FAST DELIVERY OF SPARE PARTS



zeppelin-cat.dk

ZEPPELIN **CAT**

ZEPPELIN DENMARK

WORLD CLASS CAT DEALER IN GREENLAND

Zeppelin Denmark is your authorised dealer for Cat engines, generators and machines.

We understand that you want to have your service provider in your vicinity; therefore, we offer you different kinds of services at our workshop in Nuuk for your machines, engines or generators.

With its 750 square metres, the workshop is the biggest construction workshop in Nuuk. We have 5 colleagues working at the workshop which is equipped with state-of-the-art Caterpillar diagnostic tools, special tools including a complete hydraulic hose department for both Caterpillar machines and other brands and cylinder and pump stations.

We are at your disposal if you need a talk about your options or if you need advice and guidance regarding your machine or engine.

WE KEEP YOUR BUSINESS RUNNING

We know and understand your business through many years of experience working in the Arctic environment; from the Thule Air Base in the North, to the east, west and southern parts of Greenland. From 2020 and several years ahead we are in charge of the Caterpillar machine and service set-up for the Nuuk and Ilulissat airport enlargement.

We offer total and customised solutions whether you need service, spare parts or new equipment:

- Service and repair on generators and engines
- Repair of gearboxes
- Electric work on Cat engines (eg. Switchboard service- and replacement)
- Production and repair of all types of hydraulic hoses
- We have a store of spare parts, lubricating oil and coolant for fast delivery
- Cat containerised Power moduls: full scope solutions on generator sets for production of electric power and standby power
- Service personnel in your vicinity for fast support
- Single point of contact: you will have one contact person for all your requests.

ZEPPELIN NORDICS

Zeppelin Denmark is part of Zeppelin Nordics which covers Sweden, Denmark, The Faroe Islands and Greenland. With more than 700 dedicated employees. Zeppelin Nordics is founded in the Zeppelin Group, which is present in 38 countries with around 220 locations and 10.000 employees.

ZEPPELIN AND CATERPILLAR

Since 1954 Zeppelin and Caterpillar have built a strong and lasting cooperation. Caterpillar is one of the world's oldest and largest manufacturers of construction equipment and produces one of the most valuable brands in the world within construction machinery, engines and mining. When you buy a Cat product, you are not just getting a superior machine. You get over 100 years of experience and expertise in the trade.

The Zeppelin Group is a company steeped in tradition, with technical expertise gained over the course of many years. Zeppelin offers solutions in the sectors of construction and mining, agricultural machinery, rental, construction logistics and construction site management, drive systems and energy, engineering, and plant engineering, and develops new digital business models for the construction industry.

Zeppelin has more than 60 years of experience with Cat products. It is these strong shoulders that Zeppelin Denmark stands on, and which means that you get the best solutions, the strongest machines and engines as well as the best service in the industry.

www.zeppelin-cat.dk

BLUEJAY MINING PLC



Drilling the unconsolidated raised ilmenite-bearing beaches at Dundas.

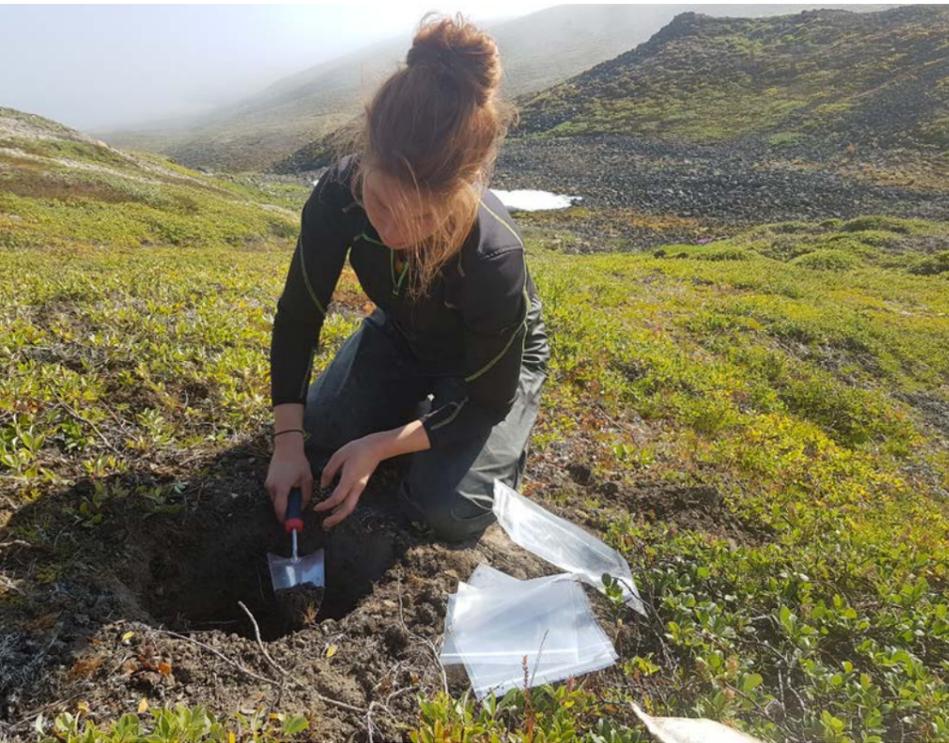
"The project is also very much suited to the emerging mining sector in Greenland. The mining processes at Dundas are very simple, and a local workforce will be supported by the training courses available in Greenland," he says. "With Greenland's very high ESG standards, beneficial relationships with local communities are key and we have done and will continue to do everything we can to lessen our environmental impact and to create as much benefit as possible for the local community."

The company is experienced in handling other Arctic challenges such as the need to create the entire infrastructure on a mobile basis. "Everything needs to be brought out there, and it all needs to be taken out again when the project is finished. As much as possible will be modularised, as few foundations as possible and nothing permanent built unless agreed with the authorities and local communities," says Mr Stensgaard. >>

"EVERYTHING NEEDS TO BE BROUGHT OUT THERE, AND IT ALL NEEDS TO BE TAKEN OUT AGAIN WHEN THE PROJECT IS FINISHED."



The mining at Dundas is simple - it's more an excavation of sand than traditional mining. In 2019 was a trial mining operation executed.



As the project is located in the so-called Arctic desert with only a small amount of snow, it will be possible to operate the mine all year round. The produced ilmenite concentrate will need to be kept in a storage facility, ready to be shipped during the four-months ice-free window, within which 11 shipments are expected to be made.

EXPANDING THE FOCUS

While the Dundas Ilmenite Project is the most advanced, Bluejay is also set to drive value by developing its other large-scale high-grade projects providing access to commodities including nickel, copper, lead, zinc and platinum. These include the Kangerluarsuk Zinc-Lead-Silver Project, further south in West Greenland in an area with a >>



NIRAS – Sustainable progress of society

NIRAS is a value-driven, multi-disciplinary engineering consultancy fundamentally committed to sustainable progress and service delivery. The company was founded in 1956 with Greenland as its main market. Today, we are an international consulting group with 2,300 experts.

NIRAS has many years of experience in the arctic areas and several of our experts have resided in Greenland for multiple years.

The main areas of expertise in Greenland are infrastructure, environmental services, planning and Social Impact Assessments and financial feasibility studies on larger projects.

Our local office is in Nuuk but through the years, we have worked in all parts of Greenland – from Nanortalik in the South to Qaanaaq and Station North in the North.



The Social Impact of mining

The Social Impact of mining is of great importance in Greenland and is therefore taken very seriously by successful mining exploration companies like Bluejay Mining. These ambitions have guided NIRAS' work on the Social Impact Assessment of the Dundas Ilmenite Project.

In cooperation with the Greenlandic Authorities and Bluejay Mining NIRAS has uncovered all potential social impacts. At the same time, solutions to increase positive social impacts and mitigate potential negative social impacts have been developed. Through continued involvement of local and national stakeholders, we have been able to present a sustainable project, which will benefit the local community for years to come.

NIRAS possesses all the professional skills and the broad knowledge of Greenlandic Society needed to conduct a comprehensive Social Impact Assessment.

Pristine Environment and Passionate Experts

NIRAS is your strong partner in all environmental aspects of project

development in Greenland – from initial permitting processes and Environmental Impact Assessments (EIA) to related field surveying and monitoring. NIRAS' experts bring in-depth knowledge of the Arctic and cover all environmental habitats, from the depths of the icy fiords to the heights of the harsh mountainous landscapes.

NIRAS successfully delivered the EIAs for the expansion of Nuuk Airport to meet international demands and the construction of a new international airport in Ilulissat. We currently facilitate a successful year-long environmental monitoring program for the Aappaluttoq Ruby mine, and we are the preferred partner for delivering the EIA on the promising Majoqqap Qaava mining project. With our local partner, NIRAS also conduct EIA studies related to the expansion of the largest Greenlandic hydropower plant.

Expanding the national infrastructure

Greenland is currently in the process of greatly expanding the national infrastructure. Whether it is roads and airports on permafrost, harbors under severe ice conditions, energy and water supply in cold climate,

NIRAS will deliver the expertise. NIRAS is currently involved in developing airports in Nuuk, Ilulissat, and Qaortoq.

The Port of Nuuk constitutes the primary supply gateway to Greenland and is one of the largest construction projects in Greenland. NIRAS delivered the construction programme for the 40,000 m² container port with a 360 m quay for container ships and cruise ship traffic.

Green transition for a sustainable future

NIRAS and our local partner Inuplan have led the engineering processes for establishing the majority of Greenland's active hydropower plants. We are currently involved in the expansion of Greenland's largest hydropower plant supplying the capital Nuuk, and we delivered engineering services for the first ever hydropower station in permafrost conditions, currently active in Ilulissat.

Our vast experience in hydropower and green energy solutions in general enables us to assist clients in developing industries for a sustainable future.



The environment is a crucial part of future mining projects

In WSP we are proud to be a part of the Dundas Titanium mining project. We have contributed with the environmental assessment, and this is one of the least invasive mining projects, we can imagine.

In our view the mining industry should be part of the solution to a green transition with high ethics and thorough environmental investigations. Thank you for showing the way, and for a great collaboration.

Contact: Morten Christensen, morten.christensen@wsp.com

wsp.com

WSP

THE LEADING CONSULTANT FOR MINING COMPANIES IN THE ARCTICS

WSP (formerly Orbicon) has a long history working for the Greenlandic mining industry. During the last decade several environmental assessments are completed for mines for gold, rare earth, titanium, zinc, iron, molybdenum and anorthosite. WSP has a very strong local presence in Greenland with offices in both Nuuk and Ilulissat. Being part of the local society, we know the challenges that the arctic environment brings.

WSP has recently acquired Golder, and together with Golder we have been involved in almost all mining projects in Greenland. We can now offer full-service consultancy to mining companies and have experienced experts in environment, geology, planning and infrastructure.

The local presence is backed by international know-how and expertise. Globally WSP has 54,000 employees of which 14,000 are environmental experts.

Meeting the immediate and long-term needs of mining clients requires in-depth knowledge of the industry and hands-on experience in all phases of a project cycle. Successful mines must balance costs while increasing productivity, ensuring environmental and safety standards in order to meet investor expectations in a socially acceptable manner.

Our experts have successfully delivered a wide range of mining projects locally and worldwide, drawing on the skills of our integrated multidisciplinary teams using state-of-the-art technological tools to develop optimal solutions tailored to the needs of each project. Regardless of complexity, WSP is the partner of choice for successful mining projects in the Arctics.

Contact Technical Director Morten Christensen, morten.christensen@wsp.com, if you want to know more. www.wsp.com

LEGAL ADVICE IN GREENLAND

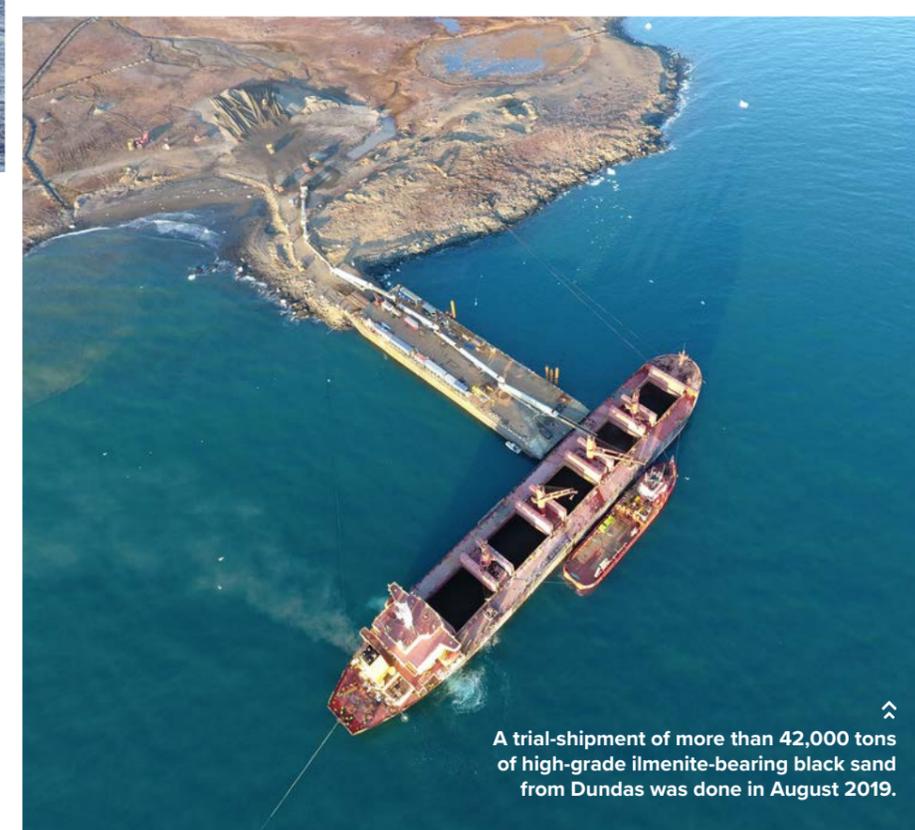
Nuna Law Firm is the leading law firm in Greenland. Our offices in Nuuk were established in 1967.

We are local. We have a unique insight into the special conditions prevailing in Greenland and extensive experience thereof. We are present every day and we know the local people (and they know us).

We are also international. During the latest 20 years, Nuna Law Firm has assisted several multinational companies involved in the mining industry in Greenland.

NUNA | ADVOKATER
EQOARTUUSISSUSERSISUT
LAW FIRM

Nuna Law Firm
Quillilerfik 2, 6.
3900 Nuuk
Greenland
www.nuna-law.gl



A trial-shipment of more than 42,000 tons of high-grade ilmenite-bearing black sand from Dundas was done in August 2019.

recent history of mining from the world famous Black Angel Mine. Bluejay's licence areas here are acknowledged as containing the strongest cluster of stream sediment zinc anomalies in the whole of Greenland.

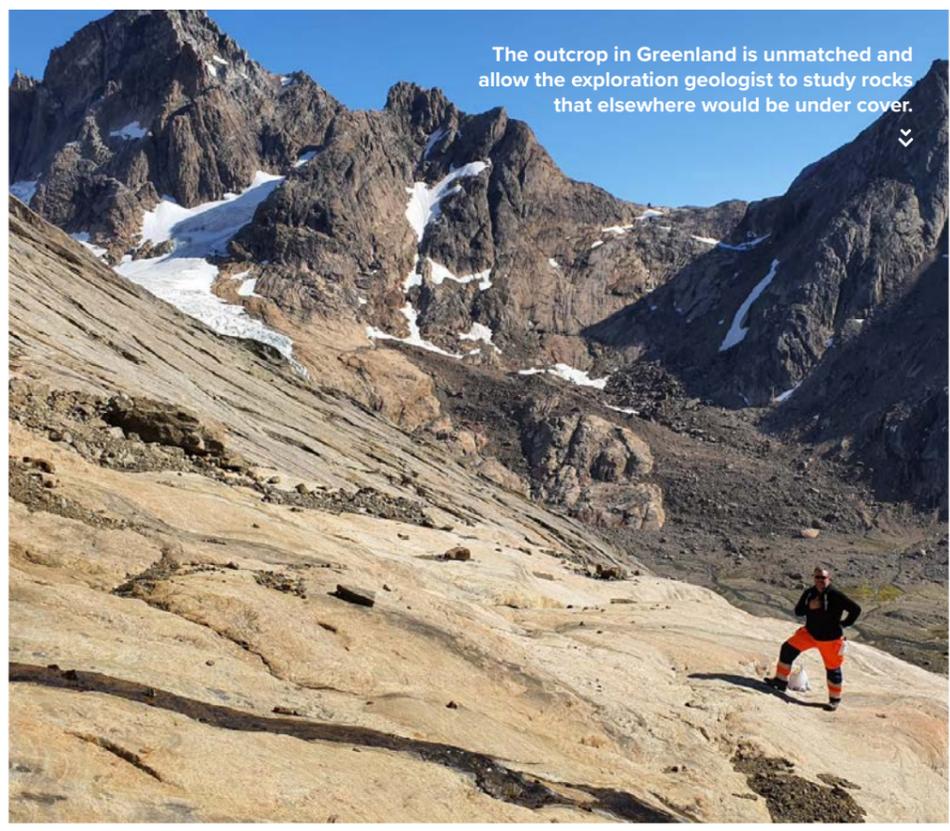
A hidden jewel in Greenland is the Disko-Nuussuaq nickel-copper-platinum-cobalt-gold project located on the west coast of Greenland. The project has a high potential to host mineralisation similar to the world's largest nickel/copper sulphide mine, Norilsk-Talnakh in Siberia.

Bluejay also has three high-grade, multi-element base metal deposits in southern Finland, a country with a strong >>

mining tradition particularly in commodities including copper, nickel, zinc, cobalt, chromium, iron and vanadium. The projects are "cost sustainable" for the long term and the company is continuing to assess the best ways in which to realise value. Recently Bluejay entered into a \$20 million joint venture with the mining giant Rio Tinto on one of the projects in Finland.

The project portfolio reflects the company's strategy, says Mr Stensgaard. "Our strong multiple-commodity project portfolio taps into global trends - critical metals for sustainable growth on the one hand, and key metals for the green transition on the other. Our strategy is to deliver projects to a high standard with value for shareholders, and with the promising potential in both Greenland and Finland, we are in a good position to achieve that." ☺

"OUR STRONG MULTIPLE-COMMODITY PROJECT PORTFOLIO TAPS INTO GLOBAL TRENDS - CRITICAL METALS FOR SUSTAINABLE GROWTH ON THE ONE HAND, AND KEY METALS FOR THE GREEN TRANSITION ON THE OTHER."



The outcrop in Greenland is unmatched and allow the exploration geologist to study rocks that elsewhere would be under cover.

^ The Disko Project is the hidden crown-jewel in the Bluejay project portfolio - it has drill ready targets for nickel-copper-cobalt and platinum group metal mineralisations.



BLUEJAY MINING PLC

WWW.BLUEJAYMINING.COM

PRODUCED BY:

